



Missouri NRCS CNMP Inventory Worksheet

Landowner/Operator:					Date:				
Farm:					Interviewer:				
Township:				County:					
Location:	¼ of	¼ Section	T	N,	R	<input type="checkbox"/> E	<input type="checkbox"/> W		
Lat:	N	Lon:	W	UTM:	N		E		

- ☐ Conduct site assessment using the [Missouri Animal Feeding Operation Site Assessment \(AFO site\)](http://ims.missouri.edu/afosite/) at [http:// http://ims.missouri.edu/afosite/](http://ims.missouri.edu/afosite/).
- ☐ **Before Visit:** Print out aerial photo for reference during site visit.
- ☐ Include a soil map and a map unit key for each livestock production site.
- ☐ Include a topographic map for each livestock production site.

Production Facility Site Sketch/Data

Use this sheet, or substitute an enlarged farmstead aerial photograph to locate listed components and resources needing protection including potential contaminant sources and pathways for contaminants to reach resources.

Show, if applicable:

barns
 animal lots
 cattle lanes

 manure storage

 reception tanks
 manure pipelines
 manure stacking pads

 milking center and
 wastewater discharge

 wells

 silage bunkers, bags
 leachate collection
 silos

 streams (perennial
 and intermittent)
 lakes, ponds
 wetlands
 surface water runoff
 (path, flow direction,
 emergency containment)

 practices (exist/planned)

 karst features

 roads, lanes, fences
 property lines
 utilities,
 mortality storage sites



Note: Facility biosecurity procedures must be followed upon entry to the farm.

Introduction, Emergency Plan, and General Farm Information

1. Enter as much information as possible on the following **CNMP Templates**:

<i>General Owner/Operator Information:</i>	
Name/Address:	Contact info:
Name/Address:	Contact info:
FSA Tract Nos.:	FSA Farm Nos.:

<i>Emergency Response Plan:</i>	
Emergency procedure:	Contact:
Equipment needed:	Location:
Emergency procedure:	Contact:
Equipment needed:	Location:

Objectives for the Enterprise:

2. Location (street address or township, section, range) for the primary livestock production facility and any associated secondary farms.

<input type="checkbox"/> Same as Landowner/Operator							
Township:				County:			
Location:	¼ of	¼ Section	T	N,	R	<input type="checkbox"/> E	<input type="checkbox"/> W
Lat:	N	Lon:	W	UTM:	N	E	

Animal Mortality Management

Mortality Management Procedures

Describe the mortality management system including storage treatment components.
(Example: Incinerator, 400 lb charge fueled by fuel oil, ash storage, bin with 366 days storage capacity [400 ft³])

List of University of Missouri Guide Sheets

WQ 205 Composting Poultry Carcasses
WQ 215 Dead Animal Disposal Laws in Missouri

WQ 211 Composting Layer Mortalities
WQ 351 Composting Dead Swine

Biosecurity Issues

Describe the current biosecurity procedures in effect on each livestock production facility.

Neighbor Issues

Are there neighbors located in close proximity to the operation (especially to the northeast and east)?

☐ Yes ☐ No

Are there any high public use areas (parks, campgrounds, etc.) located within 1/2 mile (2500 feet) of the primary livestock production site?

☐ Yes ☐ No

What good neighbor strategies are currently in effect to minimize the primary livestock production facilities impact related to odor abatement, dust abatement, traffic control, noise control, and aesthetics:

Conservation Plan (Land Treatment Practices)

Do you have an up-to-date conservation plan for all cropland associated with the livestock production facility? ☐Yes ☐No

If an up-to-date conservation plan for all cropland associated with livestock operation exists:

1.	Document cropland tracts or parcels with a verified conservation plan on the Conservation Plan Certification Worksheet. Include planner name and dates of plan certification.
2.	Was the conservation plan developed to achieve tolerable soil loss? <div style="text-align: center;"> <input type="checkbox"/>Yes <input type="checkbox"/>No </div> If "No" refer to Phosphorus Index guidance in the Nutrient-Specific Risk Assessment section on Page 7.
3.	Does the current plan accurately reflect tillage, crop rotations and residue management (including the removal of residue for silage or bedding)? <div style="text-align: center;"> <input type="checkbox"/>Yes <input type="checkbox"/>No </div>
4.	Does the conservation plan identify the watershed that the farm is located within, document the condition of the watershed, and assess the potential impact of the farm on water quality? <div style="text-align: center;"> <input type="checkbox"/>Yes <input type="checkbox"/>No </div> Impact:

If an up-to-date conservation plan for all cropland associated with livestock operation DOES NOT exist:

1.	Document planned cropping system (rotation options)
2.	What is the typical acreage of each major crop that is grown on cropland associated with the primary livestock operation?
3.	Complete a RUSLE2 template for each group of fields with a similar management including crop rotation, tillage, and harvest methods.
Does the conservation plan identify the watershed that the farm is located within, document the condition of the watershed, and assess the potential impact of the farm on water quality? <div style="text-align: center;"> <input type="checkbox"/>Yes <input type="checkbox"/>No </div> Impact:	

Manure Application Setbacks from Sensitive Features

Wells

1. Identify any wells (including abandoned wells) located in crop fields or pastures in addition to those within the livestock production site.

Well ID or Description	Distance to Septic, Barnyard or Other Potential Contaminants (If <100')	Type of Well Construction	Depth and Condition of Casing	Placement of Well on Landscape (Surface Flow)	Concerns Identified by Any Water Tests

2. Are these wells identified on spreading restriction maps? ☐Yes ☐No

Notes:

For all cropland associated with the primary livestock facility regardless of plan status, conduct the following assessment:

1. Document on the aerial photo the location of any surface drains, concentrated flow channels, existing grassed waterways, and any areas of ephemeral/gully erosion.

☐Yes ☐No

a. What is the condition of the vegetation in the bottom of each waterway channel?

b. Is there a stable outlet for each waterway channel?

☐Yes ☐No

c. Is there evidence of erosion within the channel or directly next to any of the existing waterways?

☐Yes ☐No

2. Are there known "conduits to groundwater" such as sinkholes, other karst features, abandoned wells or gravel pits?

☐Yes ☐No (Locate on map)

3. Are there buffer strips installed to protect adjoining surface and groundwater features?

☐Yes ☐No (Locate on map)

4. Are there known areas where runoff from cropland discharges into environmentally sensitive areas (wetlands, surface waters)?

☐Yes ☐No (Locate on map)

5. Are there crop fields with tile drainage?

☐Yes ☐No

If yes, identify the fields with tile, the locations of known tile surface inlets, and tile outlets.

Nutrient Management Plan

For all cropland associated with the primary livestock facility regardless of plan status, conduct the following assessment:

1. On aerial photo delineate field boundaries and determine total acreage. Identify any sensitive features requiring a manure application setback and determine spreadable acres.
2. Soil samples collected and analyzed based on 20-acre subfield areas within the last four years? Fertilizer (nitrogen, phosphorus, potassium) recommendations based on University of Missouri guidelines are calculated.
☐ Yes ☐ No
3. Intended crop rotation is provided for the planning period, with yield goals and how they were determined:
4. Manure samples taken from manure storage with the last year:
☐ Yes ☐ No

Crop year	Intended crop	Yield goal (YG)	Source of YG

Nutrient-Specific Risk Assessments

Current Missouri Phosphorus Index (http://www.mo.nrcs.usda.gov/technical/nut_mgmt_index.html)

During the CNMP development process, planners should use the Missouri Phosphorus Index to assess the risk of loss of phosphorus from application sites. The results of this assessment and alternatives for application should be discussed with the owner/operator.

- The current Missouri Phosphorus Index must be calculated for all acres receiving manure applications.
- If soil loss exceeds T, the current Missouri Phosphorus Index must be calculated for all phosphorus applications.

Missouri Leaching Index (http://efotg.nrcs.usda.gov/references/public/MO/Nitrate_Leaching_Index.pdf)

During the CNMP development process, planners should use the Missouri Leaching Index to assess the risk of loss of soluble nutrients (especially nitrate) from application sites. The results of this assessment and alternatives for application should be discussed with the owner/operator.

- The current Missouri Leaching Index must be calculated for all acres receiving manure applications.
- For acres contained within an area with an identified or designated water quality impairment, the Leaching Index assessment must be performed. See the current Missouri Nutrient Management (590) conservation practice standard for definitions of affected areas and actions to be taken as a result of this assessment.

Manure and Waste Water Handling

Data for Estimating Manure Production

Animal type (Management group)	Number (total head)	Avg. weight (per head)	Bedding type	Bedding vol. (per day)	Confinement days	Storage ID	Manure collected (%)

Concentrated Livestock Area Characteristics

Feed lot ID	Animal		Lot size (sq. ft)	Tributary areas (type and size)	Cleaning interval	Lot surface type(s)
	Type	Number				

Wastewater Production Data/Estimates (Extra Water)

Total MEASURED wastewater productions (if available):				gal/day	
OR estimate as follows:					
Parlor/Milkhouse Water:					
Cleaning parlor floors, cows, milkers		gal/day	Plate cooler water		gal/day
Cleaning bulk tank and pipelines		gal/day			
Area Cleaning:					
Flushed area		gal/day	Non-flushed area		gal/day
Sprinklers/Misters:					
Sprinkler use		days/yr	Barn sprinkler use		days/yr
Sprinkler rate		Gal/day	Barn sprinkler rate		gal/day
Describe current disposal methods:					
Describe potential resource concerns:					

Transfer System

Reception Tank/Transfer ID	Size/Volume of Reception Tank	Type of Transfer Pump or Gravity	Pipeline/Flume Type and Size	Storage ID	Meets 634 [†] (Y/N?)	Comment

Was the manure transfer system designed and constructed in accordance with the MO NRCS standards in place at the time of construction? ☐ Yes ☐ No

Storage Facilities

Storage ID	Size/Volume of Storage Unit	Type of Liner	Transfer ID	Meets 313 [†] (Y/N?)	Length (days)

Was the manure transfer system designed and constructed in accordance with the MO NRCS standards in place at the time of construction? ☐ Yes ☐ No

Identify any safety issues associated with transfer or storage (examples: confined spaces, safety fences, warning signs, push-off ramps):

Storage / Transfer ID	Description

Operation and Maintenance

If available, obtain a copy of existing operation and maintenance plan for collection, storage, treatment, and transfer of manure and wastewater; including associated equipment, facilities, and structures.